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Low reflection glass used for window pane - is glass coated with silane coupling agent then with thin film of silane cpd. contg. polyfluoroalkyl radical

Patent Assignee: ASahi GLASS CO LTD (ASAG)
Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
JP 59026944	A	19840213	JP 82135132	A	19820804		198412 B
JP 86005667	B	19860220					198612

Priority Applications (No Type Date): JP 82135132 A 19820804

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
JP 59026944	A		6			

Abstract (Basic): JP 59026944 A

Glass is obtd. by coating silane coupling agent on its surface in thickness of at least 0.1 micron and subsequently forming on it a thin film of silane cpd. having polyfluoroalkyl radical or its partially hydrolysed condensate.

The silane cpd. having polyfluoroalkyl radical has formula $(RfO)_aSi(Z1)bY1(4-a-b')$ (I) where Rf is polyfluoroalkyl radical having 4-16C and may contain more than one ether bond, Q is divalent organo radical, Z1 is lower alkyl radical, Y1 is halogen, alkoxy radical or RCOO- (R is H atom or lower alkyl radical), a is 1-3 and b is zero or 1-2. The silane coupling agent is of formula $(X(A)c)_aSi(Z2)bY2(4-a-b)$ (II) where X is NH₂, NH₂CH₂CH₂NH-, HS-, Cl, CH₂=CH-, NCO- (i) or (II), A is alkylene radical, Z2 is lower alkyl radical, Y2 is halogen or alkoxy radical, a is 1-3. b is 0, 1 or 2 and c is zero or 1.

Glass is used in buildings or vehicles as glass door, show window, optical glass and solar energy collecting glass.

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Title Terms: LOW; REFLECT; GLASS; WINDOW; PANE; GLASS; COATING; SILANE; COUPLE; AGENT; THIN; FILM; SILANE; COMPOUND; CONTAIN; POLY; FLUORO; ALKYL; RADICAL

Derwent Class: E11; L01

International Patent Class (Additional): C03C-017/30

File Segment: CPI

Manual Codes (CPI/A-N): E05-E01; E05-E02; L01-G04